

LISTING OF CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-8. Cancelled)

9. (Currently Amended) An electronic endoscope apparatus comprising:

an endoscope including an image pick-up device for converting a subject image into an image signal; ~~and~~

a signal processing device for processing the image signal, the signal processing device including:

a first signal processor that implements a signal process of the image signal and outputs the processed image signal with a first ~~output~~ display signal format; and

a first connector adapted for connecting the signal processing device to a second signal processor; and

an option substrate having the second signal processor and a second connector for connecting the second signal processor to the signal processing device via the first connector, the second signal processor ~~, which~~ implements the signal process of the image signal and outputs the processed image signal with a second ~~output~~ display signal format ~~, both the first output format and the second output format being display formats.~~

10. (Currently Amended) An electronic endoscope apparatus comprising:

an endoscope including an image pick-up device for converting a subject image into an image signal; and

a signal processing device for processing the image signal, the signal processing device including a first signal processor that implements a signal process of the image signal and outputs the processed image signal with a first ~~output~~ display signal format, and a connector; and

a second signal processor detachably connected to the connector, the second signal processor implementing the signal process of the image signal and outputting the processed image signal with a second ~~output~~ display signal format, ~~both the first output format and the second output format being display formats.~~

11. (Currently Amended) An electronic endoscope apparatus comprising:

an endoscope including an image pick-up device for converting a subject image into an image signal; and

a signal processing device including a first signal processor for processing the image signal, a second signal processor that implements a signal process of the processed image signal by the first signal processor in accordance with a first ~~output~~ display signal format, a first output for outputting the image signal processed by the second signal processor and a connector; and

a signal processing section detachably connected to the connector, the signal processing section including a third signal processor that implements the signal process of the image signal processed by the first signal processor in accordance with a second ~~output~~ display signal format, and a second output for outputting the processed image signal by the third signal processor, ~~both the first output format and the second output format being display formats.~~

12. (Previously Presented) The electronic endoscope apparatus as claimed in claim 11, wherein the signal processing section is provided with a substrate.

13. (Previously Presented) The electronic endoscope apparatus as claimed in claim 11, wherein the first signal processor includes an A/D converter for converting the image signal into a digital signal, and the signal processing section includes only a secondary circuit which is insulated from the A/D converter.

14. (Previously Presented) The electronic endoscope apparatus as claimed in claim 12, further comprising: a connection detector for detecting a connection of the connector with the substrate and notifying a user of the connection, the connection detector including a connection detecting section that detects the connection, a character information generating section that changes a displayed character information based on a signal from the connection detecting section.

15. (Previously Presented) The electronic endoscope apparatus as claimed in claim 14, wherein the character information generating section changes a displayed menu screen based on the signal from the connection detecting section.

16. (Currently Amended) A signal processing apparatus comprising:

a first signal processor that implements a signal process of an image signal and outputs the processed image signal with a first ~~output~~ display signal format;

a second signal processor, which implements the signal process of the image signal and outputs the processed image signal with a second display signal format; and

a connector adapted for connecting to ~~[[a]]~~ the second signal processor, ~~which implements the signal process of the image signal and outputs the processed image signal with a second output format, both the first output format and the second output format being display formats.~~

17. (Currently Amended) A signal processing apparatus comprising:

a first signal processor that implements a signal process of an image signal and outputs the processed image signal with a first ~~output~~ display signal format;

a connector; and

a second signal processor detachably connected to the connector, the second signal processor implementing the signal process of the image signal and outputting the processed image signal with a second ~~output~~ display signal format, ~~both the first output format and the second output format being display formats.~~

18. (Currently Amended) A signal processing apparatus comprising:

a first signal processor for processing an image signal;

a second signal processor that implements a signal process of the processed image signal by the first signal processor in accordance with a first ~~output~~ display signal format;

a first output for outputting the image signal processed by the second signal processor;

a connector; and

a signal processing section detachably connected to the connector, the signal processing section including a third signal processor that implements the signal process of the image signal processed by the first signal processor in accordance with a second ~~output~~ display signal format, and a second output for outputting the processed image signal by the third signal processor, ~~both the first output format and the second output format being display formats.~~

19. (Previously Presented) The signal processing apparatus as claimed in claim 18, wherein the signal processing section is provided with a substrate.

20. (Previously Presented) The signal processing apparatus as claimed in claim 18, wherein the first signal processor includes an A/D converter for converting the image signal into a digital signal, and the signal processing section includes only a secondary circuit which is insulated from the A/D converter.

21. (Previously Presented) The signal processing apparatus as claimed in claim 19, further comprising: a connection detector for detecting a connection of the connector with the substrate and notifying a user of the connection, the connection detector including a connection detecting section that detects the connection, a character information generating section that changes a displayed character information based on a signal from the connection detecting section.

22. (Previously Presented) The signal processing apparatus as claimed in claim 21, wherein the character information generating section changes a displayed menu screen based on the signal from the connection detecting section.

23. (Currently Amended) An electronic endoscope apparatus comprising:

an endoscope including an image pick-up device for converting a subject image into an image signal; and

a signal processing means for processing the image signal, the signal processing means including

a first signal processing means for processing the image signal and outputting the processed image signal with a first ~~output~~ display signal format,

a second signal processing means for processing the image signal and outputting the processed image signal with a second display signal format, and

a connecting means to which ~~[[a]]~~ the second signal processing means for ~~processing the image signal and outputting the processed image signal with a second-~~
~~output format,~~ is detachably connected.

24. (Currently Amended) A signal processing apparatus comprising:

a first signal processing means for processing an image signal and outputting the processed image signal with a first ~~output~~ display signal format;

a second signal processing means for processing the image signal and outputting the processed image signal with a second display signal format; and

a connecting means to which ~~[[a]]~~ the second signal processing means ~~for processing the image signal and outputting the processed image signal with a second output format,~~ is detachably connected.